

Application No.: 10/725,290

Docket No.: 22040-00021-US

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) An audio amplifier, comprising:

amplification means ~~that amplifies and outputs~~ for amplifying and outputting audio signals based on a supplied power source voltage; and

voltage conversion means ~~that is arranged in the~~ a latter stage of said amplification means, ~~and that performs~~ for performing a voltage conversion from ~~the~~ an input voltage to the output voltage,

wherein said voltage conversion means provides the output voltage at a voltage greater than the input voltage.

2. (Currently amended) An audio amplifier, comprising:

a power switch ~~for which~~ comprising transistors which perform switching operations according to ~~the~~ a pulse width of a supplied driving signal, and which ~~amplifies and outputs~~ simplify and output audio signals based on ~~the~~ a first power source voltage supplied to said transistors; and

a transformer ~~that is arranged in the~~ a latter stage of said power switch, ~~and that~~ which performs a voltage conversion based on the audio signals inputted from supplied by said power switch,

wherein an output voltage provided by the transformer is greater than the first power source voltage.

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3. (Currently amended) The audio amplifier according to claim 2, wherein:

areas of said transistors ~~that constitute~~ comprising said power switch are ~~formed into necessary sizes in order to input selected to allow~~ a desired quantity of current into said transformer based on said first power source voltage.

4. (Currently amended) ~~The audio amplifier according to claim 2, further comprising:~~

An audio amplifier, comprising:

a power switch for which transistors perform switching operations according to the pulse width of a supplied driving signal, and which amplifies and outputs audio signals by using a first power source voltage supplied to said transistors;

a transformer that is arranged in the latter stage of said power switch, and that performs voltage conversion based on the signals inputted from said power switch by using a second power source voltage; and

the said second power source voltage being connected to said transformer, in addition to the said first power source voltage being connected to said power switch;

wherein said second power source voltage is larger than said first power source voltage.

5. (Original) The audio amplifier according to claim 4, further comprising:

two transistors that perform switching operations based on output signals of said power switch and that input current into said transformer based on said second power source voltage;

wherein said two transistors are forced to be driven alternatively.

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6. (Currently amended) An audio amplifier ~~that is structured to drive an audio output means through the switching operations of~~ plural switched transistors, wherein the amplifier comprising:

~~voltage conversion means that converts for converting an input current into an output voltage output is arranged between amplification means that amplifies and outputs for amplifying and outputting~~ audio signals based on ~~the a~~ a power source voltage supplied to said transistors and said audio output means,

wherein said output voltage is greater than the power source voltage.